UNIT 3 Rocks and Minerals Web Hits

Research Paper Instructions and Web Links (Worth 8-10 points)

Teamwork Research – (Two Parts) Rocks and Minerals Unit 3

Any advanced society must use metals (elements) derived from many host minerals. And these host minerals must be taken from the Earth (mined) in order to use them. Our modern society can only exist because of mining for minerals somewhere on Earth. As our society becomes more advanced, we use a wider range of metals and minerals for almost everything in our lives. Thus recycling of minerals and metals takes on a greater importance to our society. But what minerals and metals (elements) are we using? Are we using “conflict minerals”?

Your Team assignment is to select one of four categories of a list of items to do your research. You are to research two or more selected web sites and make a list of metals/elements used for your selected category. You are to make copies of your research for your teammates and each student is to discuss within the group their findings. One thing you may discover is our increasing use of REE or Rare Earth Elements which is hard to find and extract.

PART 1:
Below are the 4 categories available (a different one for each team member – select one):

A. Minerals are needed to manufacture an automobile. Your list should include a minimum of 20 elements or metals used (I found 25 metals/elements used). Google: minerals in automobiles – and list a minimum of 2 websites used.

B. Minerals are needed to manufacture a computer including all its chips. Your list should include a minimum of 20 elements or metals used (I found 36 metals/elements used). Google: minerals in computers – and list a minimum of two websites used.

C. Minerals are needed to manufacture cell phones of various types. List should include minimum of 15 minerals/metals used (I found over 25 metals/elements used). Google: minerals in cell phones – and list a minimum 2 websites used.

D. Minerals are needed to manufacture light bulbs such as incandescent bulbs, CFL bulbs, neon lights, LED. List should include a minimum of 20 metals/elements and gasses used (I found more than 30 used.). Google: minerals in light bulbs – and list a minimum 2 websites used.

General rules for Part 1:
1. To be typed or handwritten in blue or black ink: (include ONLY a list of actual websites that you used as references)
2. In a column form, list metals, or elements used in alphabetical order (suggest Excel spreadsheet or hand written list).

PART 2: Conflict Minerals (EVERYONE MUST DO THIS PART ALSO) on a Word document or written.
1. Google: What are conflict minerals and read at least two websites.
2. Write me a minimum of two paragraphs of three sentences each about what you have learned about “conflict minerals”.

INDIVIDUALLY: WORTH EIGHT (8) POINTS IF TURN IN ON TIME NOT ACCEPTED LATE (and 2 points for team work)

ALL WORK (INCLUDING TEAM WORK) IS DUE CLASS AFTER EXAM 2